

Appendix F

Other Certificates:

V Zone Certificate

Hydraulic Openings Certificate

National Flood Insurance Program

V-ZONE CERTIFICATE

Name _____ Policy Number (*Insurance Co. Use*) _____
Building Address or
Other Description _____
City _____ State _____ Zip Code _____

SECTION I: Flood Insurance Rate Map (FIRM) Information

Community Number _____ Panel Number _____ Suffix _____ Date of FIRM Index _____ FIRM Zone _____

SECTION II: Elevation Information

NOTE: This Certificate does not substitute for an Elevation Certificate

1. Elevation of the Bottom of Lowest Horizontal Structural Member..... _____ feet (NGVD)
2. Base Flood Elevation (BFE)..... _____ feet (NGVD)
3. Elevation of Lowest Adjacent Grade..... _____ feet (NGVD)
4. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design..... _____ feet (NGVD)
5. Embedment Depth of Pilings or Foundation Below Lowest Adjacent Grade..... _____ feet (NGVD)

SECTION III: V-Zone Certification Statement

NOTE: This section must be certified by a registered engineer or architect

I certify that I have developed or reviewed the structural design, plans, and specifications for construction and that the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated to or above the BFE; and
- The pile and column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to the effects of the wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood. Wind loading values used are those required by the applicable State or local building code. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.

SECTION IV: Breakaway Wall Certification Statement

*NOTE: This section must be certified by a registered engineer or architect
when breakaway walls exceed a design safe loading resistance of 20 pounds per square foot*

I certify that I have developed or reviewed the structural design, plans, and specifications for construction and that the design and methods of construction to be used for the breakaway walls are in accordance with accepted standards of practice for meeting the following provisions:

- Breakaway wall collapse shall result from a water load less than that which would occur during the base flood; and
- **The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components (wind and water loading values to be used are defined in Section III).**

SECTION V: Certification

Signature below certifies: _____ Section III; _____ Section IV

Certifier's Name _____ Company Name _____
Title _____ License Number _____
Street Address _____
City _____ State _____ Zip Code _____

Signature _____ Date _____ Telephone Number _____

National Flood Insurance Program

Hydraulic Openings Certificate

Project Name

I, _____, do hereby certify that the opening(s) designed for installation in the aforementioned building have been engineered to allow for the automatic equalizing of hydrostatic flood forces on exterior walls by allowing for the automatic entry and exit of floodwater during floods up to and including the base (100-year) flood.

[Guidance on engineered openings is available in FEMA's Technical Bulletin 1-93, *Openings in Foundation Walls*.]

Certifier's Name

Title

Type of License

License Number

Company Name

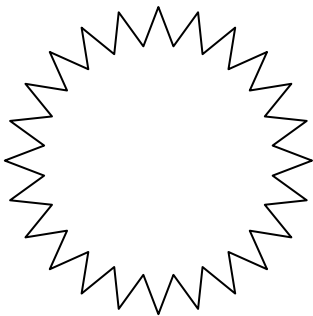
Street Address

City, State, Zip

Telephone Number

Signature

Date



PROFESSIONAL SEAL